

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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CABLE SPLICING—GENERAL

LEAD SLEEVES—BRIDGE SPLICES—

EXCHANGE CABLE—MAIN CABLE CUT

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1. GENERAL

1.01 This section contains the tables of lead sleeve sizes for bridge splices in exchange type cables where the main cable is cut and the wire work is done with desiccant. If paraffin is used, the sleeve diameter should be decreased one size for those sleeve sizes designated with an asterisk. Sleeve sizes not designated with an asterisk are satisfactory for either desiccant or paraffin.

2. TABLES

2.01 19-Gauge main cable

LEAD SLEEVE SIZES FOR BRIDGE SPLICES
19 GAUGE MAIN CABLE CUT

SIZE OF MAIN CABLE IN PAIRS	SIZE OF BRIDGE CABLE IN PAIRS										
	11 or 16		26		51		76		101		
	D	L	D	L	D	L	D	L	D	L	
11 or 16	1½	15*									
26	1½	15	1¾	17*							
51	1¾	17	2	17*	2	17*					
76	2	17*	2¼	17*	2¼	17*	2½	20*			
101	2¼	17*	2¼	17*	2½	20*	2½	20	2¾	20*	
152	2½	20	2½	20	2¾	20*	3	20*	3	20*	
202	3	20*	3	20*	3	20*	3	20	3½	20*	
303	3½	20	3½	20	4	20*	4	20*	4	20*	
404	4½	22*	4½	22*	4½	22*	4½	22*	4½	22*	
455	4½	22*	4½	22*	4½	22*	4½	22*	5	22*	
	SIZE OF BRIDGE CABLE IN PAIRS										
	152		202		303		404		455		
152	3½	20*									
202	3½	20	4	20*							
303	4½	22*	4½	22*	4½	22*					
404	5	22*	5	22*	5	22*	5½	22*			
455	5	22*	5	22*	5½	22*	5½	22*	5½	22*	

D=Diameter (inches)

L=Length (inches)

* = If paraffin is used decrease the sleeve to the next smaller diameter.

2.02 22-Gauge main cable

LEAD SLEEVE SIZES FOR BRIDGE SPLICES
22 GAUGE MAIN CABLE CUT

SIZE OF MAIN CABLE IN PAIRS	SIZE OF BRIDGE CABLE IN PAIRS												
	11 or 16		26		51		76		101		152		
	D	L	D	L	D	L	D	L	D	L	D	L	
11 or 16	1¼	15											
26	1½	15*	1½	15									
51	1½	15	1½	15	1¾	17							
76	1¾	17*	1¾	17*	2	17*	2	17					
101	1¾	17	2	17*	2	17	2¼	17*	2¼	17*			
152	2	17	2¼	17*	2¼	17	2½	20*	2½	20	2¾	20*	
202	2¼	17*	2½	20*	2¾	20*	2¾	20*	2¾	20*	3	20*	20*
303	2¾	20	2¾	20	3	20*	3	20	3½	20*	3½	20*	20*
404	3	20	3	20	3½	20*	3½	20	3½	20	4	20*	20*
455	3½	20*	3½	20*	3½	20*	3½	20	4	20*	4	20*	20*
606	3½	20	3½	20*	4	20*	4	20*	4	20*	4½	22*	22*
909	4½	22*	4½	22*	4½	22*	4½	22*	4½	22	4½	22	22
	SIZE OF BRIDGE CABLE IN PAIRS												
	202		303		404		455		606		909		
202	3	20											
303	3½	20	4	20*									
404	4	20*	4	20	4½	22*							
455	4	20	4½	22*	4½	22*	4½	22					
606	4½	22*	4½	22	5	22*	5	22*	5	22			
909	5	22*	5	22	5	22	5½	22*	5½	22	6	22	

D = Diameter (inches)

L = Length (inches)

* = If paraffin is used decrease the sleeve to the next smaller diameter.

2.03 24-Gauge main cable

LEAD SLEEVE SIZES FOR BRIDGE SPLICES
24 GAUGE MAIN CABLE CUT

SIZE OF MAIN CABLE IN PAIRS	SIZE OF BRIDGE CABLE IN PAIRS											
	11 or 16		26		51		76		101		152	
	D	L	D	L	D	L	D	L	D	L	D	L
11 or 16	1¼	15										
26	1¼	15	1½	15*								
51	1½	15*	1½	15	1¾	17*						
76	1½	15	1¾	17*	1¾	17	2	17*				
101	1¾	17*	1¾	17	2	17*	2	17*	2¼	17*		
152	2	17*	2	17*	2¼	17*	2¼	17*	2½	20*	2½	20
202	2¼	17*	2¼	17*	2½	20*	2½	20*	2¾	20*	2¾	20
303	2½	20*	2½	20*	2¾	20*	2¾	20*	3	20*	3	20*
404	3	20*	3	20	3½	20*	3½	20*	3½	20*	3½	20
455	3	20*	3	20	3½	20*	3½	20*	3½	20*	3½	20
606	3½	20	3½	20	3½	20	3½	20	4	20*	4	20*
909	4½	22*	4½	22*	4½	22*	4½	22*	4½	22*	4½	22
1212	5	22*	5	22*	5	22*	5	22*	5	22*	5	22*
1515	5½	22*	5½	22*	5½	22*	5½	22*	5½	22*	5½	22*
	SIZE OF BRIDGE CABLE IN PAIRS											
	202		303		404		606		909		1212	
202	3	20*										
303	3½	20*	3½	20								
404	4	20*	4	20*	4	20*						
455	4	20*	4	20*	4	20*						
606	4	20	4½	22*	4½	22*	5	22*				
909	5	22*	5	22*	5	22*	5½	22*	5½	22		
1212	5	22*	5½	22*	5½	22*	5½	22	6	22*	6	22
1515	5½	22*	5½	22*	5½	22*	5½	22	6	22	6½	22*

D = Diameter (inches)

L = Length (inches)

* = If paraffin is used decrease the sleeve to the next smaller diameter.

2.04 26- or 28-Gauge main cable

LEAD SLEEVE SIZES FOR BRIDGE SPLICES
26 OR 28 GAUGE MAIN CABLE CUT

SIZE OF MAIN CABLE IN PAIRS	SIZE OF BRIDGE CABLE IN PAIRS											
	11 or 16		26		51		76		101		152	
	D	L	D	L	D	L	D	L	D	L	D	L
11 or 16	1¼	15*										
26	1¼	15*	1¼	15*								
51	1¼	15	1½	15*	1½	15*						
76	1½	15*	1½	15*	1½	15	1¾	17*				
101	1½	15*	1½	15*	1¾	17*	1¾	17*	2	17*		
152	1¾	17*	1¾	17*	2	17*	2	17*	2	17	2¼	17*
202	2	17*	2	17*	2¼	17*	2¼	17*	2½	20*	2½	20*
303	2¼	17*	2¼	17*	2¼	17	2½	20*	2½	20	2¾	20*
404	2½	20	2¾	20*	2¾	20*	2¾	20*	2¾	20*	3	20*
606	3	20	3	20	3½	20*	3½	20	3½	20	4	20*
909	3½	20	3½	20	3½	20	3½	20	4	20*	4	20*
1212	4½	22*	4½	22*	4½	22*	4½	22*	4½	22*	4½	22*
1515	5	22*	5	22*	5	22*	5	22*	5	22*	5	22*
1818	5	22*	5	22*	5	22*	5	22*	5	22*	5	22*
2121	5	22*	5	22*	5	22*	5	22*	5	22*	5	22*
	SIZE OF BRIDGE CABLE IN PAIRS											
	202		303		404		606		909		1212	
202	2¾	20*										
303	2¾	20	3	20*								
404	3	20	3½	20	4	20*						
606	4	20*	4	20*	4	20	4½	22*				
909	4½	22*	4½	22*	4½	22*	4½	22*	5	22*		
1212	4½	22*	5	22*	5	22*	5	22*	5½	22*	5½	22*
1515	5	22*	5	22*	5	22	5½	22*	5½	22*	5½	22
1818	5	22*	5	22*	5½	22*	5½	22*	5½	22	6	22*
2121	5	22	5	22	5½	22	5½	22	6	22	6½	22*
	SIZE OF BRIDGE CABLE IN PAIRS											
	1515		1818		2121							
1515	6	22										
1818	6	22	6½	22*								
2121	6½	22*	6½	22	6½	22						

D = Diameter (inches) L = Length (inches)

* = If paraffin is used decrease the sleeve to the next smaller diameter.